

Locking up device of hydraulic torque converter for power transmission, has several springs fixed in spring receptacles formed in input unit of clutch coupling to couple input and output units

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Abstract

A clutch coupling (40) is formed between a front cover (2) and a friction coupling portion (49) attached to an input unit (43) which has many spring receptacles (60) queued up in the peripheral direction. Several springs (52) are fixed in the spring receptacles to elastically couple the input unit and an output unit (53) which cannot be connected to a turbine (11) and rotated mutually. The hydraulic torque converter (1) has an impeller (10) which forms a fluid chamber with the front cover. The turbine is fixed in the fluid chamber facing the impeller while ensuring a spacing between the front cover and the turbine. A mechanical coupling and release operation is performed between the front cover and the turbine with the locking up device (4) constituted with the clutch coupling by a pressure charge in the space between the front cover and the turbine.

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